



March 25, 2016

WATER RIGHT INC. - WATERCARE  
WATERCARE  
KURT GRUETT  
1900 PROSPECT COURT  
APPLETON WI 54914

Re: Description: WATER TREATMENT DEVICE - SOFTENER/CATION EXCHANGE  
Manufacturer: WATER RIGHT INC. - WATERCARE  
Product Name: (trans id) TOTAL CARE SERIES CONDITIONERS  
Model Number(s): TC2-1044, TC2-1054 AND TC2-1354  
Product File No: 20160104

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of March 2021.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 267-9787.
- If these approved devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These cation exchange water softeners shall be sized, installed, programmed and maintained such that wastewater volumes, total dissolved solids and chloride discharges are minimized.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these plumbing products will reduce the concentration of contaminants as specified on pages 1 through 2 of this letter.

**WATER SOFTENING CAPABILITIES**  
**PRODUCT FILE NUMBER 20160104**  
**TABLE 1 OF 3**

Model Numbers	Capacities*						Flow Rates vs. Pressure Losses
TC2 Series	Rating 1		Rating 2		Rating 3		
Metered	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
TC2-1044	7,300	3.2	11,400	9.3	11,800	12.4	9.0 @ 2.4
TC2-1054	16,400	6.1	20,700	12.4	22,600	15.9	9.0 @ 2.8
TC2-1354	28,300	9.5	33,600	15.9	36,900	21.2	9.0 @ 2.7

\* The softener capacity rating is based on grains of hardness, due to calcium and magnesium cations, removed (as calcium carbonate) while producing soft water between successive regenerations and is related to the pounds of salt required for each regeneration. The tests run to generate the data for table 1 of 3 were conducted in accordance with column testing performed by Baumbach Labs.

**AESTHETIC TREATMENT CAPABILITIES**  
**PRODUCT FILE NUMBER 20160104**  
**TABLE 2 OF 3**

Model Numbers	Combined Total Iron ( $\text{Fe}^{+2} + \text{Fe}^{+3}$ ) and Manganese ( $\text{Mn}^{+2}$ )	
TC2 Series	Influent (mg/l <sup>1</sup> )	Effluent (mg/l <sup>1</sup> )
TC2-1044	≤ 8.0	≤ 0.3
TC2-1054	≤ 10.0	≤ 0.3
TC2-1354	≤ 15.0	≤ 0.3

**Other conditions:** The tests run to generate the data for table 2 of 3 were conducted in accordance with column testing performed by Baumbach Labs. The total cumulative concentrations of hardness, total iron and manganese must be used to determine the proper sizing and programming of these products

<sup>1</sup> = milligrams per liter (mg/l) are equivalent to parts per million (ppm)  
 ≤ = less than or equal to

\* = unless otherwise indicated

**pH MODIFICATION CAPABILITIES**  
**PRODUCT FILE NUMBER 20160104**  
**TABLE 3 OF 3**

Model Numbers	pH	
	Influent (pH Units)	Effluent (pH Units)
TC2 Series	≥ 6.5	≤ 7.0
TC2-1044	≥ 6.0	≤ 7.0
TC2-1054	≥ 6.0	≤ 7.0
TC2-1354	≥ 6.0	≤ 7.0

**Other conditions:** The tests run to generate the data for table 3 of 3 were conducted in accordance with column testing performed by Baumbach Labs.

≤ = less than or equal to

≥ = greater than or equal to

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry. The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter  
 Environmental Engineer - Plumbing Product Reviewer  
 Depart of Safety and Professional Services  
 Division of Industry Services  
 Bureau of Technical Services  
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